## SUNNYVALE WATER POLLUTION CONTROL PLANT TOUR STUDY GUIDE

Why is sewage	treated before being discharge	ed to the Bay?
Why is it neces	ssary to speed up nature's proce	sses through the treatment plant?
٠.	pollutants do Sunnyvale homes a five.)	and businesses discharge into the sewer
How many million	ons of gallons of water enter the	e plant in an average 24-hour period?
	meter of each of the two pipes deep underground are they? _	bringing sewage into the plant?
	colors of pipes in the plant that	
a. methane ga	sb. sludgec. scur	md. electrical
· •	df. water	
, ,		pump water up to ground level?
	CHANNEL MONSTER do in the	e first step of PRIMARY TREATMENT
What is the re	ason for adding compressed air	into the GRIT CHAMBERS?
What are exam	uples of "GRIT"?	
	to GRIT after it is removed?	
• •		NS when the water moves very slowly?
Where do SLU	DGE and SCUM go once they are	e removed?
	in the DI GESTERS?	
What parts of	_	ERS mimic?
		temperature should the scum and
-	gesters be kept?	- What do we use it for?
vviiat yas is pro	Juuceu III tile Di GESTEKS!	What do we use it for?
What is the en	vironmental benefit of using it i	nstead of flaring it?
What are the t	reated solids removed from the	DIGESTERS called?

## $\underline{\textbf{Plant Tour Study Guide}}\ continued$

19.	What is the purpose of the slits in the tiles on the BIOSOLIDS DRYING BEDS?			
20.	. How long do the BIOSOLIDS dry out on beds?			
	What are BIOSOLIDS used for?			
22.	Where does the water go for SECONDARY TREATMENT to naturally remove dissolved solids?			
23.	How long, on average, does the water remain in the ponds?			
24.	What organisms in the ponds consume most of the dissolved solids and what is added as result?			
25.	5. What is the reason for removing dissolved solids and nutrients in SECONDARY TREATMENT?			
26.	What is a by-product of ALGAE growth?			
27.	What is the purpose of TERTI ARY TREATMENT?			
28.	Where does the water pumped up from the ponds go to begin TERTIARY TREATMENT?			
29.	What happens in the FGR's when water trickles down the SLIME GROWTH walls?			
30.	What two substances are added in the AIR FLOTATION TANKS to cause the algae to			
31.	clump and float to the surface for removal?			
32.	Why does the water wind its way slowly through the CHLORINE CONTACT CHANNELS?			
33.	How do we remove CHLORI NE later and why?			
34.	How safe is the treated sewage water at this stage?			
35.	What is the name of the treated sewage water that is not discharged into the Bay, and what is it used for?			
36.	What color are the pipes that distribute recycled water?			
37.	Do you think it is necessary to have a sewage treatment facility? Why or why not?			